Dmitry Dolgopyat

List of Publications by Year
in descending order

50 papers	1,327 citations	471509 17 h-index	361022 35 g-index
51 all docs	51 docs citations	51 times ranked	362 citing authors

#	Article	IF	Citations
1	On Decay of Correlations in Anosov Flows. Annals of Mathematics, 1998, 147, 357.	4.2	272
2	Limit theorems for partially hyperbolic systems. Transactions of the American Mathematical Society, 2003, 356, 1637-1689.	0.9	140
3	On differentiability of SRB states for partially hyperbolic systems. Inventiones Mathematicae, 2004, 155, 389-449.	2.5	102
4	Prevalence of rapid mixing in hyperbolic flows. Ergodic Theory and Dynamical Systems, 1998, 18, 1097-1114.	0.6	97
5	On mixing properties of compact group extensions of hyperbolic systems. Israel Journal of Mathematics, 2002, 130, 157-205.	0.8	65
6	On Dynamics of Mostly Contracting Diffeomorphisms. Communications in Mathematical Physics, 2000, 213, 181-201.	2.2	58
7	Recurrence properties of planar Lorentz process. Duke Mathematical Journal, 2008, 142, .	1.5	43
8	Random walk in Markovian environment. Annals of Probability, 2008, 36, .	1.8	42
9	Every compact manifold carries a completely hyperbolic diffeomorphism. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	39
10	Sample path properties of the stochastic flows. Annals of Probability, 2004, 32, 1.	1.8	35
11	Energy Transfer in a Fast-Slow Hamiltonian System. Communications in Mathematical Physics, 2011, 308, 201-225.	2.2	34
12	Limit Theorems for Dispersing Billiards with Cusps. Communications in Mathematical Physics, 2011, 308, 479-510.	2.2	28
13	Dynamics of some piecewise smooth Fermi-Ulam models. Chaos, 2012, 22, 026124.	2.5	25
14	Geometric and Measure-Theoretical Structures of Maps with Mostly Contracting Center. Communications in Mathematical Physics, 2016, 341, 991-1014.	2.2	24
15	Stable ergodicity for partially hyperbolic attractors with negative central exponents. Journal of Modern Dynamics, 2008, 2, 63-81.	0.5	23
16	Prevalence of rapid mixing—II: topological prevalence. Ergodic Theory and Dynamical Systems, 2000, 20, 1045-1059.	0.6	22
17	Non-Stationary Non-Uniform Hyperbolicity: SRB Measures for Dissipative Maps. Communications in Mathematical Physics, 2016, 346, 553-602.	2.2	18
18	Unbounded Orbits for Semicircular Outer Billiard. Annales Henri Poincare, 2009, 10, 357-375.	1.7	17

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19	Limit theorems for locally perturbed planar Lorentz processes. Duke Mathematical Journal, 2009, 148, .	1.5	17
20	Lorentz Gas with Thermostatted Walls. Annales Henri Poincare, 2010, 11, 1117-1169.	1.7	14
21	THE DIFFUSION COEFFICIENT FOR PIECEWISE EXPANDING MAPS OF THE INTERVAL WITH METASTABLE STATES. Stochastics and Dynamics, 2012, 12, 1150005.	1.2	13
22	Non-perturbative approach to random walk in markovian environment. Electronic Communications in Probability, 2009, 14, .	0.4	13
23	The visits to zero of a random walk driven by an irrational rotation. Israel Journal of Mathematics, 2015, 207, 653-717.	0.8	12
24	On mixing and the local central limit theorem for hyperbolic flows. Ergodic Theory and Dynamical Systems, 2020, 40, 142-174.	0.6	12
25	Addendum to â€˜Periodic orbits and dynamical spectraâ€™. Ergodic Theory and Dynamical Systems, 1998, 18, 293-301.	0.6	11
26	Temporal Distributional Limit Theorems for Dynamical Systems. Journal of Statistical Physics, 2017, 166, 680-713.	1.2	11
27	Mixing properties of generalized T,Tâ€ˆ1 transformations. Israel Journal of Mathematics, 2022, 247, 21-73.	0.8	11
28	Nonequilibrium Density Profiles in Lorentz Tubes with Thermostated Boundaries. Communications on Pure and Applied Mathematics, 2016, 69, 649-692.	3.1	10
29	Infinite measure renewal theorem and related results. Bulletin of the London Mathematical Society, 2019, 51, 145-167.	0.8	10
30	Flexibility of statistical properties for smooth systems satisfying the central limit theorem. Inventiones Mathematicae, 2022, 230, 31-120.	2.5	10
31	A limit shape theorem for periodic stochastic dispersion. Communications on Pure and Applied Mathematics, 2004, 57, 1127-1158.	3.1	9
32	Deviations of Ergodic sums for Toral Translations I. Convex bodies. Geometric and Functional Analysis, 2014, 24, 85-115.	1.8	9
33	Particle drift in self-similar billiards. Ergodic Theory and Dynamical Systems, 2008, 28, 389-403.	0.6	8
34	Averaging of Hamiltonian flows with an ergodic component. Annals of Probability, 2008, 36, .	1.8	8
35	On simultaneous linearization of diffeomorphisms of the sphere. Duke Mathematical Journal, 2007, 136, .	1.5	7
36	Central limit theorems for simultaneous Diophantine approximations. Journal De L'Ecole Polytechnique - Mathematiques, 0, 4, 1-35.	0.0	6

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37	Averaging of incompressible flows on two-dimensional surfaces. Journal of the American Mathematical Society, 2012, 26, 427-449.	3.9	5
38	Deterministic and stochastic perturbations of area preserving flows on a two-dimensional torus. Ergodic Theory and Dynamical Systems, 2012, 32, 899-918.	0.6	5
39	Asymptotic windings of horocycles. Israel Journal of Mathematics, 2018, 228, 119-176.	0.8	5
40	EVOLUTION OF ADIABATIC INVARIANTS IN STOCHASTIC AVERAGING. Stochastics and Dynamics, 2004, 04, 265-275.	1.2	4
41	Local Limit Theorems for random walks in a 1D random environment. Archiv Der Mathematik, 2013, 101, 191-200.	0.5	4
42	Deviations of ergodic sums for toral translations II. Boxes. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2020, 132, 293-352.	4.3	4
43	Multiple Borel–Cantelli Lemma in dynamics and MultiLog Law for recurrence. Journal of Modern Dynamics, 2022, 18, 209.	0.5	3
44	Non-Collision Singularities in the Planar Two-Center-Two-Body Problem. Communications in Mathematical Physics, 2016, 345, 797-879.	2.2	2
45	Constructive approach to limit theorems for recurrent diffusive random walks on a strip. Asymptotic Analysis, 2021, 122, 271-325.	0.5	2
46	Global observables for RW: Law of large numbers. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2021, 57, .	1.1	2
47	Regularity of absolutely continuous invariant measures for piecewise expanding unimodal maps. Nonlinearity, 2016, 29, 2775-2797.	1.4	1
48	Asymptotic expansion of correlation functions for Zd covers of hyperbolic flows. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2022, 58, .	1.1	1
49	The work of Federico Rodriguez Hertz on ergodicity of dynamical systems. Journal of Modern Dynamics, 2016, 10, 175-189.	0.5	0
50	The work of Sébastien Gouëzel on limit theorems and on weighted Banach spaces. Journal of Modern Dynamics, 2020, 16, 351-371.	0.5	0